LUKACS, V.F.; GORACZ, Gy.; SIMON, Hedvig

Myocardial changes associated with Icterus gravis of the newborn. II. The effect of steroid treatment. Acta paediat. acad. sci. Hung. 4 no.3:419-424 163

1. First Department of Paediatrics (director: prof.P.Gegesi Kiss) and Second Institute of Pathology (director: prof. L. Haranghy), University Medical School, Budapest.

LUKACS, V. Ferenc, dr.; GORACZ, Gyula, dr.; SIMON, Hedvig, dr.

Contributions to the study of myocardial changes associated with interus gravis meonatorum II. Gyermekgyogyaszat 14 no.12: 364-369 D 163.

l. A Budapesti Orvostudomanyi Egyetem I sz. Gyermekklinikajanak (Igazgato: Gegesi-Kiss Pal dr. akademikus, egyetemi tanar) es a II sz. Korbonctani Intezet (Igazgato: Haranghy Laszlo dr. a MTA lev. tagja, egyetemi tanar) kozlemenye.

(ERYTHROBLASTOSIS, FETAL) (MYCCARDIUM)

(HEMOLYSIS) (PHENYLHYDRAZINE)

(HYDROCORTISONE) (PATHOLOGY)

Contributions to the pathology of breast sarcoma. Magy. sebesz.

16 no.6:385-389 D 163.

1. A Budapesti Orvostudomanyi Egyetem II sz. Korbonctani
Intezetenek (Igazgato: Haranghy Laszlo dr. MTA levelezo tag)
es a Budapesti Orvostudomanyi Egyetem I sz. Sebeszeti Klinikaja
(Igazgato: Hedri Endre[deceased] dr. egyetemi tanar): kozlemenye.

(BREAST NEOFLASMS) (SARCOMA)
(SURGERY, OPERATIVE) (PATHOLOGY)
(CYSTOSARCOMA PHYLIOIDES)

HUNGARY

ROSTA, Janos, Dr. GORACZ, Gyula, Dr. Medical University of Budapest, I. Pediatric Clinic, II. Pathological Institute (Budapesti Orvostudomanyi Egyetem, I. Gyermekklinika, II. Korbonctani Intezet).

"The Embryopathy of Mumps."

Budapest, Orvosi Hetilap, Vol 104, No 34, 25 Aug 1963, pages 1598-1601.

Abstract: [Authors' Hungarian summary] The authors report a case of embryonic damage, caused by mumps. The mumps, contracted during the sixth week of pregnancy by the mother, was verified by a physician. The infant was born with severe heart defect and died two months later. In addition to the heart defect, dysraphia of the brain was also discovered during autopsy. On histological examination, changes in the pancreas, salivary glands, heart and liver were noted which are thought to be a result of the interuterine infection. Serological tests and embryological data support this assumption. All Western references.

1/1

APPROVED FOR RELEASE: U6/13/2000 CIA-RDP86-00513R000516020011-5'
Surgical treatment of Buerger's disease. Orv. hetil. 106 no.37:
1830-1833 26 S 165.

1. Budapesti Orvostudomanyi Egyetem, I. Sebeszeti Klinika (igaz-gato: Rubanyi, Pal, dr.) es Heim Pal Gyermekkorhaz (igazgato: Sarkany, Jeno, dr.) Korbonctani Osztaly.

Myocardial changes associated with interus gravis of the newborn.Pt.). Acta paediat. 6 no.2:191-198 '65.

1. First Department of Paediatrics, University Medical School, Budapest, and Heim Pal Children's Hospital, Budapest. Submitted January 11, 1965.

GORACZ, I

The effect of acute inflammation on the growth of experimental carcinoma in rate and on human breast carcinoma. Orv. Hetil. 93 no. 8:251-252 24 Feb 1952. (CLML 23:3)

1. Doctor. 2. Roentgen Clinic (Director -- Prof. Dr. Nandor Batkocsy), Budapest Medical University.

GORACZ, I.

Experimental contributions on the problem of endogenous carcinogenic substances. Orv. hetil. 94 no.15:415-417 12 Apr 1953. (CIML 24:4)

1. Doctor. 2. Roentgen Clinic (Director -- Prof. Dr. Mandor-Ratkoczy). Budapest Medical University.

Electronic apparatus for distant measuring of parameters of deposits and for the rational exploitation of petroleum boreholes. Wiad naft 6 no.12:282-284 D '60. (ERAI 10:6) (Petroleum) (Electronic measurements)	

TEICHEN, Jacek, mgr inz.; POLACZEK, Czeslaw, inz.; GORAJ, Leszek

Modern measuring technique and automation in mining petroleum
and gas deposits. Nafta 21 no.3:72-74 Mr 165.

1. Petroleum Institute, Krakow.

PADOVTSOVA, G.; GORAK, B.; BOR, I.; BRDLIK, professor, zavednyushchiy,

Angiocardiography in congenital anomalies of the heart shape. Vop.pediat. 21 no.2:35-47 Mr-Ap '53. (MLRA 6:6)

1. Vtoraya detskaya klinika Prazhskogo universiteta.
(Diagnosis, Radioscopic) (Heart--Diagnosis) (Heart--Abnormities and deformities)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020011-5"

KHASYMSKI, M.; KEL'M, M. [Kelm, M.]; SHIDLOVSKAYA, S. [Szydlowska, S.]; GCRAK, B. [Horak, B.]; RIKHTER, V.

From public reports of the heads of the delegations of socialist countries. Tekh. est 2 no.8:7-11 Ag '65. (MIRA 18:9)

1. Direktor TSentra promyshlennoy estetiki, khudozhestvennogo proyektirovaniya i konstruirovaniya Narodnoy Respubliki Bolgarii (for Khasymski). 2. Predsedatel' Soveta po khudozhestvennomu konstruirovaniya Germanskoy Demokraticheskoy Respubliki (for Kel'm). 3. General'nyy sekretar' Soveta po tekhnicheskoy estetike pri Predsedatele Soveta Ministrov Pol'skoy Narodnoy Respubliki (for Shidlovskaya). 4. Zamestitel' ministra promyshlennosti tovarov shirokogo potrebleniya, zamestitel' predsedatelya Soveta po tekhnicheskoy estetike Chekhoslovatskoy Sotsialisticheskoy Respubliki (for Gorak). 5. Direktor TSentra khudozhestvennogo konstruirovaniya v Zagrebe Sotsialisticheskoy Federativnoy Respubliki Yugoslavii (for Rekhter).

Manufacture of worsted yarn fr of them. Tekst.prom. 20 no.	om polyester fibers a 8:66-69 Ag 160.	nd mixtures (MIRA 13:9)	
1. Sotrudnik Chekhoslovatskogo instituts shersti v g.Brno. (Vorsted)	Nauchno-issledovatel (Textile fibers, Synt		

MATENA, Sh., doktor tekhn.nauk prof. (Chekhoslovatskaya Sotsialisticheskaya Respublika, Praga); GORAK, K., inzh.

Low-voltage net-type closed networks. Izv.vys.ucheb.zav.; energ. 3 no.10:17-25 0 '60. (MIRA 15:11)

1. Predatsvlena kafedroy elektricheskikh sistem Moskovskogo ordena Lenina energeticheskogo instituta.

(Electric power distribution)

S/661/61/000/006/061/061 D267/D302

AUTHORS: Gorak, M., Shneider, B. and Bazhant, V.

TITLE: Molecular spectra of methyl phenyl siloxanes

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim.

kremneorg. soyed., Len. 1958. Leningrad, Izd-vo AN SSSR,

1961, 272-277

TEXT: The investigation was carried out in order to check the occurrence of characteristic frequencies corresponding to the methyl or phenyl groups, and possibly to discover other characteristic frequencies in the infrared absorption spectra and Raman spectra. The general methods of preparing the individual methyl phenyl siloxanes (and in particular methyl phenyl tetrasiloxanes) are given. In all, 23 substituted silanes and siloxanes were studied, mainly in the frequency range 800 - 600 cm⁻¹. Characteristic frequencies

Card 1/2

Molecular spectra of ...

S/661/61/300/006/061/081 D267/D302

were detected in both spectra for various elementary members. It was found that the descending displacement of the characteristic frequency for the Si-O-Si group can be used as the approximate measure of the number of phenyl groups in the molecule. To obtain the number of methyl groups in silomanes it is better to use the method of areas of absorption bands near 1250 cm-1 than the method based on the calculation of the apparent coefficients of extinction. It is also possible to determine the number of the separate siloxane members by determining the apparent coefficient of extinction for bands near 840 and 750 cm⁻¹. The true number of whenyl groups is more conveniently determined by quantitative analysic based on ultraviolet spectra. The position of the symmetric frequency of the Si-O bond can be used to differentiate between linear and cyclic compounds, and even to determine the size of the cycle. There are

ASSOCIATION:

Institut khimii Chekoslovatskoy Akademii nauk, Praga (Institute of Chemistry, Osechoslovak Academy of Sciences, Prague)

Card 2/2

CORAT, Oldzhikh (Fraga)

The LAV A-250 racing motercycle. Za rul. 16 no.11:22 W '58.
(WIRA 12:1)

(Csecheslevakia--Metercycles)

SUBJECT:

CSR/Mining

127-10-8/24

AUTHORS:

Gorak, R., Mrnka, Z. and Frokop, S., Engineers

TITLE:

Mining of Iron Ores in Ejpovice (Rasrabotka shelesnykh rud v Evpovitse)

Eypovitse)

PERIODICAL:

Gornyy Zhurnal, 1957, #10, pp 34-39 (USSR)

ABSTRACT:

The Ejpovice iron ore deposit is located between Rokycany and Plsen. The deposit is of the sedimentary type and consists of 2 ore levels. The ore bodies have many shear zones due to tectonic phenomena and their dip angle is approximately 15°.

The ore of the lower level, whose thickness varies from 0 to 20 m, contains over 30 % of iron. That of the principal upper level, whose thickness is from 15 to 25 m, contains 25 to 27 % of iron.

The roof of the principal ore body is represented by sandstone, quartsite and micaceous slate which are very crumbling. The covering rocks are represented by Tertiary sediments.

Card 1/2

The whole deposit area is divided by a railroad line into 2 parts: the northern part occupying 0.5 sq km is exploited by

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000316020011-5" Exportse) CIA-RDP86-00513R000316020011-5" Exportse)

the strip mining. The southern part, occupying 0.7 sq km, will be mined by the underground method. The planned annual output of the both parts will total 1,100,000 tons of ore.

The overburden is removed in a 10 m high bench, while ore is mined in 5 m high benches due to considerable tectonic disturbances.

Percussion drilling of bore holes, 150 to 200 mm in diameter, is performed with Soviet "DY -20-2" drilling machines.

Rock and ore are loaded with single-bucket excavators of the "Mb-2" and "E-25" types into dump trucks "T-111" (8-ton capacity) and "MA3-525" (25-ton capacity).

The article contains 7 photos and 5 tables. No references are cited.

ASSOCIATION: Not indicated

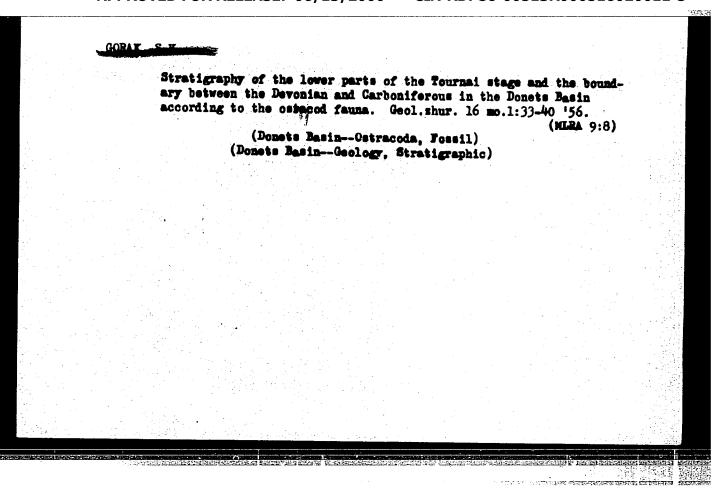
PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

USSEN/Geophysics - Barth's Origin Mov/Dec 53 USSEN/Geophysics - Barth's Origin and Development temporary meoryles of the Origin and Development temporary meoryles of the Origin and Development (reporters) Iz Ak Nauk SSSR, Ser Geofiz, No 6, pp 571-573 Iz Ak Nauk SSSR, Ser Geofiz, No 6, pp 571-573 Conference was organized by the Kiev regional Conference was organized by the Kiev regional Conference was organized by the Kiev regional Engineers and "Debnicians [mining]) together with Engineers and "Debnicians [mining]) together with Engineers and "Debnicians [mining]) together with spating in the conference were scientific workers pating in the conference were scientific workers pating in the conference were scientific workers geophysicists, geochemists of Koscow, Klew, geologists, geophysicists, geochemists of Koscow, Klew, and geophysicists, geochemists of Koscow, Klew, The Galushow, Ye.S. Burkserfay, V. Belousov and, N. F. Galushow, Ye.S. Burkserfay, V. Belousov and, N. F. Galushow, Ye.S. Burkserfay, V. Belousov and, N. F. Balythovskiy.			
	Gorax, S.V.	Geophysics - Earth's Origin Moderates of the Origin and Devel rary Theories of the Origin and Devel rary Theories of the Origin and Devel rary Theories of the Origin and Devel orters) k Mauk SSSR, Ser Geofiz, No 6, pp 571 k Mauk SSSR, Ser Geofiz, No 6, pp 571 k Mauk SSSR, Ser Geofiz, No 6, pp 571 k Mauk SSSR, Ser Geofiz, No 6, pp 571 k Mauk SSSR, Ser Geofiz, Acad Scientific Society of Geol Sci, Acad Scientific Institute instructors were scientific ing in the conference were scientific fing in the conference were scientific whysicists, geochemists of Moscow, Kiphysicists, geochemists of Moscow, Kiphysicists, geochemists of Moscow, Kiphysicists, geochemists of Moscow, Kiphysicists, Seochemists of Moscow, Kiphysicists, Seochemists of Moscow, Kiphysicists, Burkser, Ny. V. Belousov Eushko, Ye.S. Burkser, Ny. V. Belousov Eykhovskiy.	



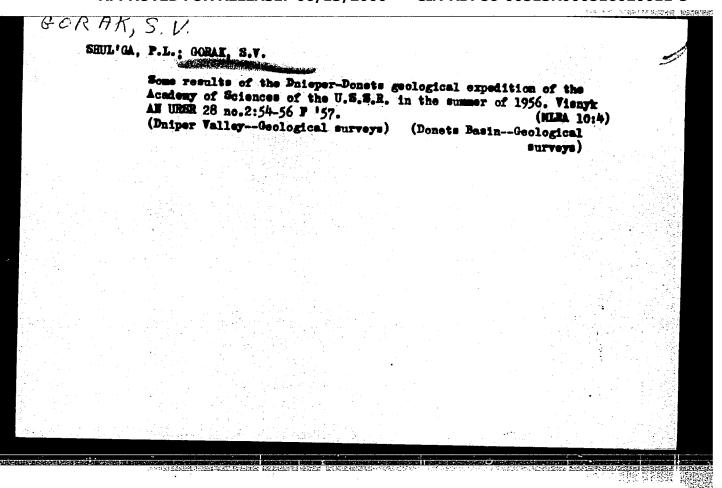
SHUL'GA, P.L.; ISHCHEMO, A.M.; ISHCHEMO, T.A.; GORAK, S.V.

On the Devonian supersaline series in the region of Kalaidintsy in the Dnieper-Demets Lowland. Dop. AM URSR no.2:165-168 '57.

(MERA 10:5)

1. Institut geologichnikh nauk AM URSR. Predstaviv akademik AM URSR V.G. Bondarchuk.

(Dnieper Lewland--Geology, Stratigraphic)



GURAK, 20-4-42/60 Shul'ga, P.L., Ishchenko, A.M., AUTHORS Ishchenko, T.A. and Gorak, S.V. New Data Concerning the Devonian of the Dnepr-Donets TITLE Depression, (Novygedannyge o devone Dneprovsko-Donetskoy vpadiny.) Doklady Akademii nauk SSSR, 1957, Vol. 115, Nr 4, PERIODICAL pp. 780-782 (USSR) Devenian deposits in a normal, undisturbed stratification ABSTRACT above the salt mass in the above-mentioned depression were hitherto unknown, although they were since 20 years discovered in breccias at several places. This rendered difficult the determination of the character of the upper salt mass as well as of its age. Just as unsolved remained the problem of the salt age, although several researchers stubbornly ascribed to it a Jivet age. Below the Devonian of the Chernigev elevation and the Pripyat' depression no salt was found. The Pripyat' depression is recently considered by some geologists as a structure independent of the Dnepr-Donets depression. This gave rise to the assumption of a different facial stand of the Devonian in these two regions and CARD 1/3 of a different age of salt in them. It was not before a

20-4-42/60

New Data Concerning the Devonian of the Dnepr-Donets Depression.

deep boring near the village Kalaydintsy (northwest of Lubny) in the year 1956 that clearness was obtained. But the Devenian layers were wrongly classified with the Carboniferous, in spite of the Devenian age of the speres determined from it. Upper Vise deposits occur in the Devonian roof. Numerous foraminifera were determined here which indicate an agreement of the contained recks with the lewer half of the Cyg zone of the Donets

basin. After a therough description of the individual layers and the fessils contained in them the authors come to the following conclusion:

- 1) Apart from the salt and the lewer portion of salt the Devenian is in the Dnepr-Donets depression represented by a nermally deposited thick (about 2000 m) mass of Upper Devenian upper salt deposits. They correspond to the upper salt mass of the Upper Devenian of the Pripyat' deflection.
- 2) In the late Devenian era the Dnepr-Denets depression and the Pripyat' deflection formed a uniform geological structure. They possessed a uniform stage formation and sedimentation which took place as well

CARD 2/3

CIA-RDP86-00513R000516020011-5 APPROVED FOR RELEASE: 06/13/2000 New Data Concerning the Devenian of the Dnepr-Donets Depression

> under conditions of a continental lagoon as under conditions of a shallow sea. Temperarily a direct connection with the Western European Devenian sea

3) The present data indicate that at the late Devenian time salt structures occured in the relief of the Dnepr-Denets depression which were analogous to that of Kalaydintsy. Toward the beginning of sedimentation of analogues of the lower parts of the Cyg sone of the Denets basin they were completely cut off.

There are 10 Slavio references.

ASSOCIATION:

Institute for Geological Sciences AN Ukrainian SSR. (Institut geologicheskikh nauk Akademii nauk Ukr.

SER)

PRESENTED:

By N.M. Strakhov, Academician, March 11, 1957

SUBMITTED:

Nevember 5, 1956

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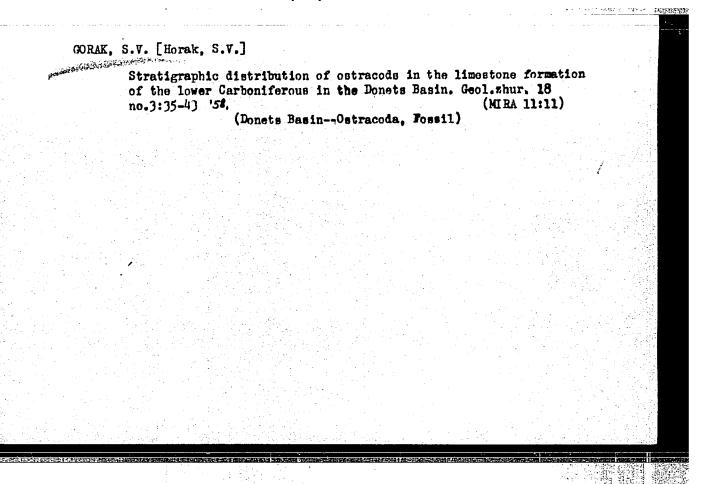
Library of Congress.

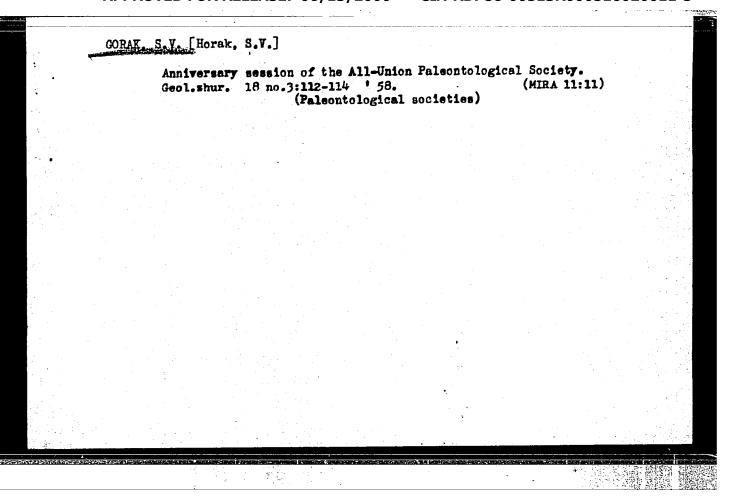
CARD 3/3

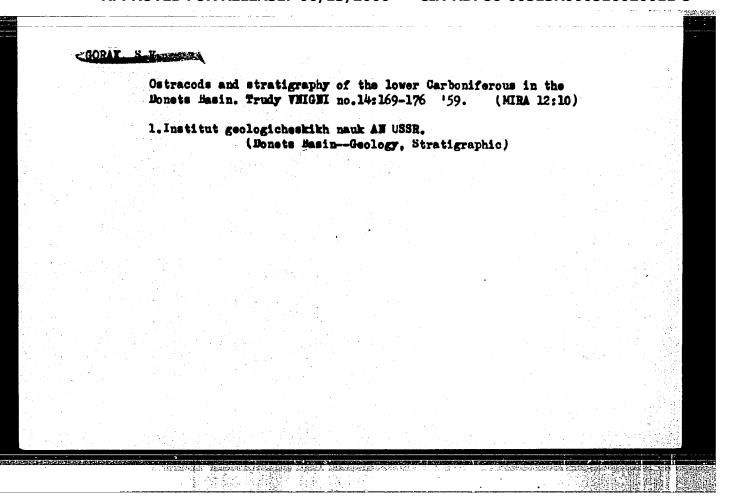
GORAK, Sergey Vladimirovich [Horak, S.V.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akademik, otv.red.; MRL'HIK, I.F., red.izd-va; MATVIYCHUK, 0.0., tekhn.red.

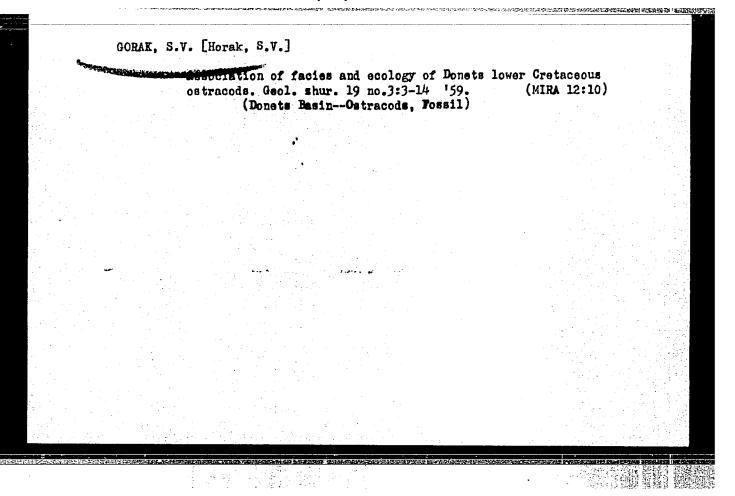
[Ostracoda in certain middle and upper Carboniferous horisons of the Donets Basin and factors governing their existence]
Ostrakody deiakykh horysontiv seredn'oho i verkhn'oho karbonu
Donets'koho baseinu ta umovy ikh isnuvannia. Kyiv, Vyd-vo
Akad.nsuk URSR, 1958. 74 p. (MIRA 12:8)

1. AN USSR (for Bondarchuk).
(Ostracoda, Fossil)









AYZENVERG, D.Ye. [Aizenverg, D.IE.]; BARANOVA, N.M.; VEKLICH, M.F.;
GCHYAK, L.M. [Holimb, L.M.]; GCRAK, S.V. [Horek, S.V.];
DIIKOVSKIY, V.Ya. [Didkova'kyi, V.IA.]; ZELINSKAYA, V.O.
[Zelins'ka, V.O.]; ZERNHTSKIY, B.F. [Zernets'kyi, B.F.];
KAPTARENKO-CHERNOUSOVA, O.K.; KRAYEVA, Ye.Ya. [Kraieva, IB.IA.];
KRASHKNINNIKOVA, O.V.; KUTSIBA, A.M.; IAPCHIK, T.Yu.; MAKARENKO,
D.Ye.; MCLYAVKO, G.I. [Moliavko, H.I.]; MULIKA, A.M.; PASTERNAK,
S.I.; PERMYAKOV, V.V.; ROMODANOVA, A.P.; ROTMAN, R.N.; SLAVIN, V.I.;
SCKOLOVSKIY, I.L.; SOROCHAN, O.A.; SYABRYAY, V.T.; TKACHENKO, T.O.;
SHUL'GA, P.L. [Shul'ha, P.L.]; doktor geol.-mineral.nauk; YAMNICHENKO,
I.M. [IAMNychenko, I.M.]; BONDARCHUK, V.G. [Bondarchuk, V.H.], akademik, otv.red.

[Atlas of paleogeographical maps of the Ukrainian and Moldavian S.S.R. with lithofacies elements. Scale 1:2,500,000] Atlas paleogeografichnykh kart Ukrains'koi i Moldavs'koi RSR z elementamy litofatsii. Masshtab 1:2,500,000. Sklaly D.IE. Aizenverg i dr. Za zahal'nym kerivnytstvom V.N.Bondarchuka. Kyiv, 1960. xvi p., 78 col.maps. (MIRA 13:12)

1. Akademiya nauk USSR. Kiyev. Institut geologicheskikh nauk.

2. Institut geologicheskikh nauk AN USSR (for all, except Bondarchuk, Pasternak, Slavin).

3. Instytut geologii korysnykh kopalyn AN URSR (for Pasternak).

4. Moskovskiy gosudarstvennyy universitet im. Lomonosova (for Slavin).

(Ukraine--Paleogeography--Maps) (Moldavia--Paleogeography--Maps)

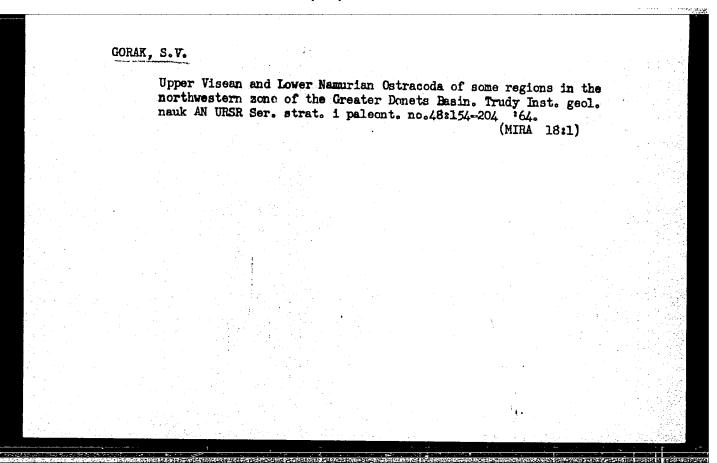
KRANDIYEVSKIY, Vadim Semenovich [Krandiievs'kyi, V.S.]; GORAK, S.V.

[Horak, S.V.], kand. geol.-miner. nauk, otv. red.;

SERDYUK, O.P., red.; TURBANOVA, N.A., tekhn. red.

[Ostracoda in the Silurian sediments of Podolia] Fauna ostrakod siluriiskikh vidkladiv Podillia. Kyiv, Vyd-vo AN URSR, 1963. 147 p. (MIRA 16:11)

(Podolia--Ostracoda, Fossil)



BERENSHTEYN, Leonid Yefimovich; GORAK, Vladimir Vladimirovich
(Horak, V.V.); GODLEVSKAYA, V.O.[Hodlevs'ka, V.O.], red.;
MEYEROVICH, S.L., tekhn. red.

[The Ukraine works for virign lands] Ukraina - tsilynnym
zemliam. Kyiv, Derzhpolitvydav URSR, 1962. 81 p.

(Ukraine—Agriculture)

(Ukraine—Agriculture)

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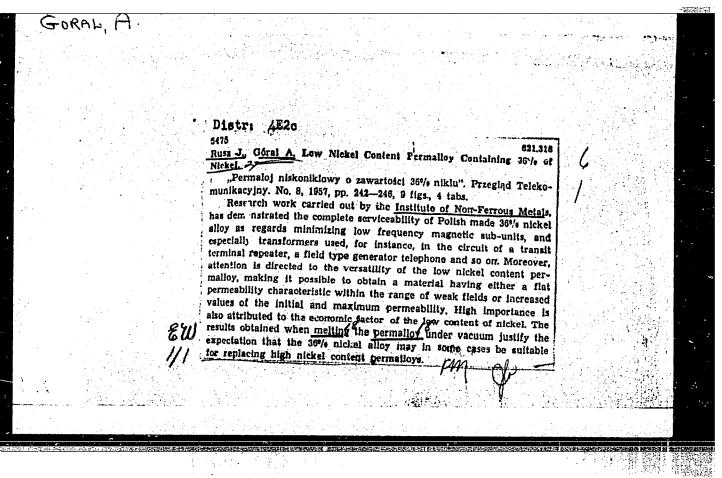
CORAKOVA, Korneliya [Horakova, Kornelia]; SHVARTS, Shtefan [Schwarz, Stefan]

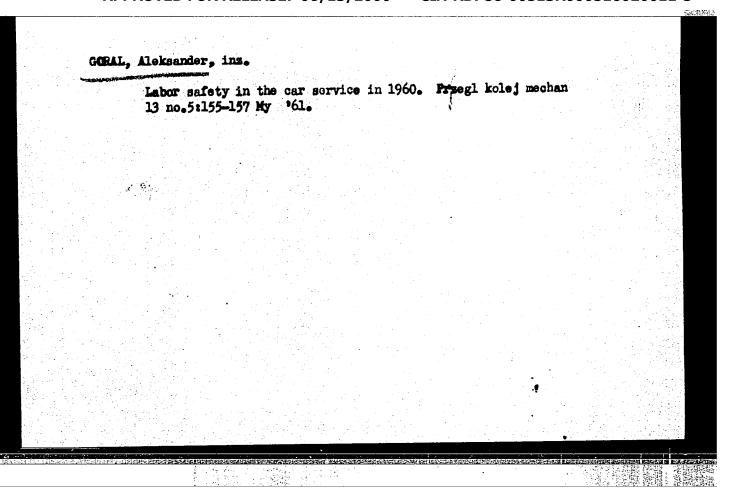
Oyclic matrices and algebraic equations over a finite field.

Mat fyz cas SAV 12 no.1:36-46 '62.

1. Katedra matematiky Slovenskej vysokej skoly technickej, Bratislava.

Authors' address: Gottwaldovo namesti 2, Bratislava.





GORAL, Arkadiusz; MAJKA, Jan Certain problems of the theory and design of symmetric transformer- coupled transistor converters. Prace Inst teletechn 3 no.2:131-149 159;			A 3 d	W TYA To				,	
159)	-	GORAL,	Certain coupled	problems of transistor	the theory	and design o	f symmetric teletechn 3	transformerino.2:131-149	
		•	159;						
	•	- 1							
		i Jogania							

P/022/60/000/008/002/004 A222/A026

AUTHOR:

Goral, Arkadiusz, Master of Engineering

TITLE:

Magnetic Polarization Elements. Magnetic Polarization Reactor

Elements; Ferroresonant Elements

PERIODICAL: Przeglad Telekomunikacyjny, 1960, No. 8, pp. 238 - 245

TEXT: The paper is a continuation of the article "Elementy o prostokatnej petli histerezy - transformatory nsycane" (Elements with a rectangular hysteresis loop - saturation transformers) printed in the 10-11, 1959 issue of the periodical. The author presents a basic description of physical and technological properties of magnetic materials used in the construction of magnetic polarization elements; he further describes memory storage properties of ferromagnetic cores with a rectangular magnetization loop and the principles of saturation transformers in dynamic circuits. Frequent use is made of references; no investigation or conclusions are involved. There are 18 figures and 12 references: 2 Polish, 1 Soviet and 9 English.

ASSOCIATION: Osrodek Badawczy Sprzetu Łaczności (Research Center of Communications Card 1/1 ____Equipment).

P/022/60/000/010/001/012 A222/A126

AUTHOR:

Góral, A.

TITLE:

Scientific session of the Polish Academy of Sciences on the subject: "Reliability, stability and life of radioelectronic equipment components"

PERIODICAL:

Przeglad telekomunikacyjny; no. 10, 1960, 294

TEXT: The session of the Polish Academy of Sciences with about 150 participants was convened on June 3, 1960, at the Palace of Culture and Science in Warszawa by a preparatory committee headed by Professor A.Kiliński. The committee consisted of Director, Master of Engineering J. Auerbach; Colonel, Master of Engineering J. Biernacki; Director, Master of Engineering A. Czechowski; Docent S. Darecki; Master of Engineering A. Góral (director of the session); Master of Engineering Z. Kaczkowski (Scientific Secretary); Director, Docent S. Kielan; Director, Doctor of Engineering A. Wojnar. Four reports and seven papers have been read at the session. The reports were: On the reliability of electronic equipment (A. Kiliński); Preliminary working program on the reliability of electronic equipment

Card 1/3

P/022/60/000/010/001/012

Spientific session of the Polish Academy ...

(A. Czechowski); Characteristics of reliability tests performed by the OBSL (Communications Equipment Testing Center) (A. Goral); Basic problems of the reliability theory of electronic equipment. Principles of evaluation and methods of analysis of component and organism reliability (K. Grzesiak) The papers were: Excerpts from a paper on performance reliability of commercial radio receivers (S. Osadnik); Work organization in the evaluation of reliability tests (E. Nowakowski); Results of some, research on the parameter stability and life of Polish-made electron tubes and point-contact germanium diodes (E. Nowakowski); Results of some research on the reliability, life in and stability of OWS-II and OBW resistors (E. Paczkowski); Conclusions from some research on the stability and life of KSF and KRC-type capacitors (E. Paczkowski); Results of research on temperature-induced reversible and irreversible modifications in ferrites (L. Olech and Z. Jaranowski); Research on the applicability of characteristic functions of irreversible processes in the determination of filter stability (H. Dutkowski). The session appointed a commission which consisted of Lieutenant Colonel, Doctor of Engineering T. Niewiadomski (Chief); Doctor of Engineering A. Wojnar; Master of Engineering S. Firkowicz; Lieutenant, Master of Engineering R. Kulesza; Master of

Card 2/3

Scientific session of the Polish Academy... P/022/60/000/010/001/012
A222/A126

Engineering S. Nowak; Master of Engineering K. Rudzka. The commission prepared a resolution which is printed in the same issue of the periodical.

Partial switching of rectangular hysteresis-loop ferrites. Bul Ac Pol tech 9 no.2:95-9) '61 l. Presented by J. Grosskowski. (Forrites) (Elasticity)		1.1 集中通行的进行。这一的知道是1945年,19	5
1. Presented by J. Grosskowski.	GORAL,	tabing of rectangular hysteresismicop 10111100	
l. Presented by J. Grosskovaki. (Forrites) (Blasticity)		Pol. feet August 15	
(Ferrites) (Slasticity)		1. Presented by J. Grosskowski.	
		(Ferrites) (Blasticity)	

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P/019/61/010/002/003/009 D253/D303

AUTHOR:

Góral, A.

TITLE:

Dynamic characteristics of ferrites with a rectan-

gular hysteresis loop

PERIODICAL:

Archiwum elektrotechniki, v. 10, no. 2, 1961,

407-438

TEXT: The author deals with the problem of interpreting dynamic characteristics of ferrites with respect to pulse operation and magnetic amplifiers. The magnetizing characteristics of ferrites are marked by the non-linear relationship between flux density and magnetizing force. The magnetizing force can be expressed as:

 $H = \frac{0.4 \, \text{n lw}}{4} \, ,$

(1)

where H = magnetizing force (Oe), I = magnetizing current A, w = number of turns, t = mean length of magnetic path in a closed core or "in a core of infinite length" (cm). The flux density is

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Dynamic characteristics...

expressed as: $B = \frac{\Phi}{q} = B_0 + \frac{108}{wq} \int_{0}^{\infty} u dt$

(2)

where B = mean value of flux density (G_8) , B_0 = initial flux density, T = magnetizing time (sec), q = cross section (cm^2) , u = voltage across a choke at a given instant, w = number of turns, ϕ = magnetic flux. The complex μ is expressed as:

 $\mu = \frac{\hat{B}}{\pi} = \mu_1 - j\mu_2, \tag{3}$

where B, H - first harmonic quantities of flux density and magnetizing force, μ_1 - real part of complex permeability, known as proportionality factor in an expression for inductance, μ_2 - imaginary part of the complex permeability, called the loss factor. The concept of complex permeability is particularly advantageous when considering very weak fields; the analysis of dynamic characteristics of ferrites requires a different approach, the complex permeability is still applicable but with restrictions, eddy current effects must be considered and the process of magnetizing at higher frequencies

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P/019/61/010/002/003/009 D253/D303

Dynamic characteristics...

generally. In magnetic materials with rectangular hysteresis loop, the residual flux density Br approaches the saturation flux density Bs. The rectangularity factor is $p = \frac{Br}{5}$ (4)

and under static conditions the permeability

 $\mu d = \frac{dB}{dH}$ (5)

when H = H_c the permeability is large. H - magnetizing force, H_c - coercive force. Practical results, using ferrites with rectangular loop helped to establish the following relation

 $\Upsilon_{M} = \frac{S}{H_{M} - H_{O}} \tag{6}$

where TM - magnetizing time from peak to peak of flux density, (switching time), measured on a scope between two points on the induced voltage curve; HM - magnetizing force, HO - critical magnetic force above which permanent changes are introduced to the magnetic material, S - factor of proportionality, called switching

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Dynamic characteristics...

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factor. Particular attention is drawn to the fact that the critical magnetizing force Ho in this work will not be precisely equivalent to Ho in expression (6), but Ho will be the magnetizing force equivalent to Hc in a static hysteresis loop. The following types of core were tested: 1) Ring cores made of tapes of alloys containing 50% Ni and having rectangular hysteresis loop. Tapes of different thickness were used; 2) Ferrite cores. a) Cores employing tapes of 0.06 mm and 0.1 mm thickness produced by the Institute of Non-Ferrous Metals in Gliwice; b) Cores employing 0.05 mm thick tape of HCR alloy of British manufacture; c) Cores of 0.065 mm thickness of permenorm 5000Z produced by Vacuumschmelze GDR; d) Toroidal cores of ferrites Mn-Mg-Zn of nominal composition 35Fe 203, 31Mn0, 22.5Mg0, 11.5ZnO baked at normal air atmosphere at a pressure of 1.5 mm Hg. Inside diameter of core - 3 mm, outside diameter - 4 mm. The graphs in Figs. 16 and 17 represent the relationship $\log S = f(\log \frac{1}{2})$; the interesting point to notice is the change into non-linear part. Oscilloscope tracings of induced voltages into the core during the magnetizing process are shown photographically. The

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Dynamic characteristics...

tracings shown are for different materials and for a different value of the magnetizing charge: s = S, $s = \frac{1}{4}S$, $s = \frac{1}{2}S$, $s = \frac{1}{4}S$, s = $\frac{1}{4}S$, s =

The constants C_1 , C_2 and β can be determined from the starting conditions, knowing that at s=0, $\Delta B=Br-B_0$ (see Fig. 20). It should be noted that the main feature of $\Delta B=\phi$ (s) curves is their independence of the series resistance of the magnetizing circuit. The interpretation of the experimental results suggests that within the range of a small magnetizing force (near H_c) non-uniformity of inter-domain boundary motions is predominant. This behavior at low magnetizing force is of importance in magnetic amplifier circuits. There are 29 figures and 28 references: 8 Soviet-bloc and 20 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: E.M. Gyorgy, "Rotation-

Card 5/8

24944

Dynamic characteristics...

P/019/61/010/002/003/009 D253/D303

al model of flux reversal in square-loop ferrites", J. Appl. Phys., v. 28, no. 9, 1957, pp 1011-1015; F.B. Humphrey, E.M. Gyorgy, "Flux reversal in soft ferro-magnetics." J. Appl. Phys., v. 30, no. 6, 1959, pp 935-939; W. Lee Shevel, Jr., "Millimicrosecond switching properties of ferrite computer elements." J. Appl. Phys., suppl. v. 30, no. 2, 1959, pp 47-48; A. Papoulis, T.C. Chen, "Domain theory in core switching" Proceedings of the symposium on the role of solid state phenomena in electric circuits. Interscience publishers, 1957, pp 197-232.

SUBMITTED:

May 21, 1960

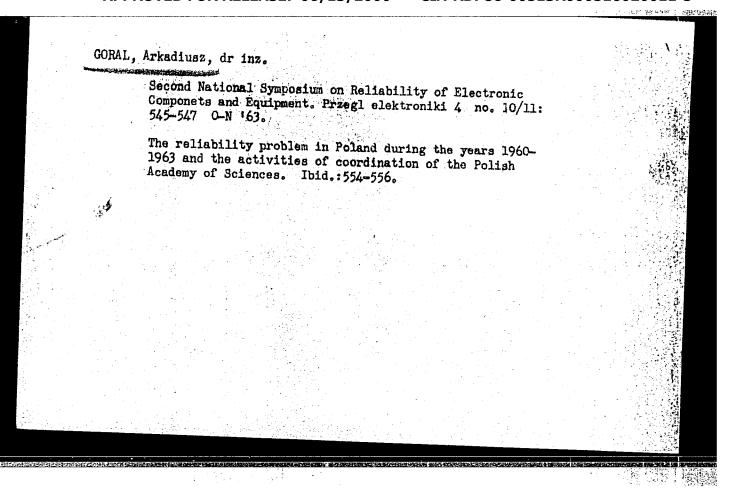
Card 6/8

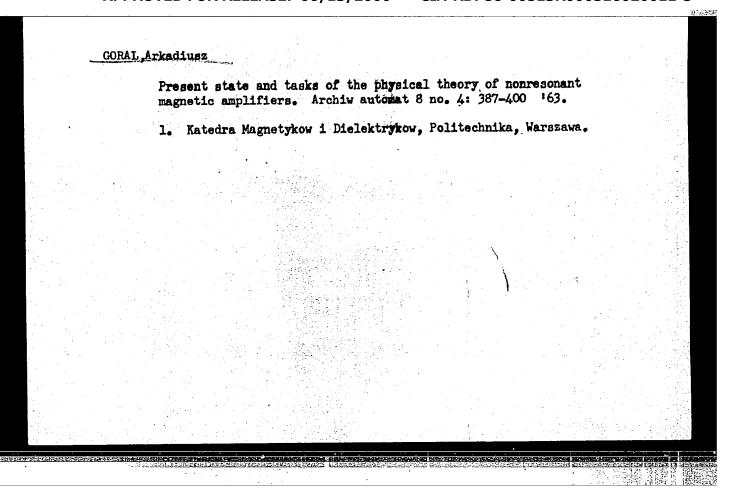
GORAL, Arkadiusz, mgr ins.

Certain relations for the circuits of asymmetric transistor converters with magnetic energy accumulation in the core. Prace Inst teletechn 4 no.2:3-10 60.

1. Osrodek Badawczy Sprzetu Lacznosci, Zegrze k.Warszawy.

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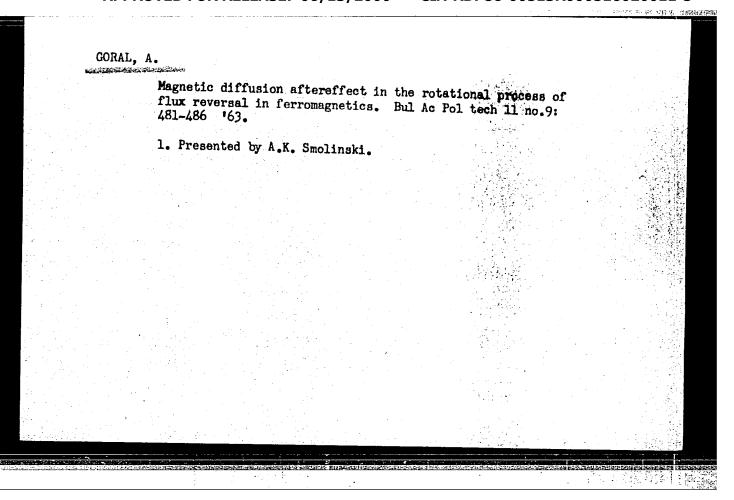
GORAL, Arkadiusz

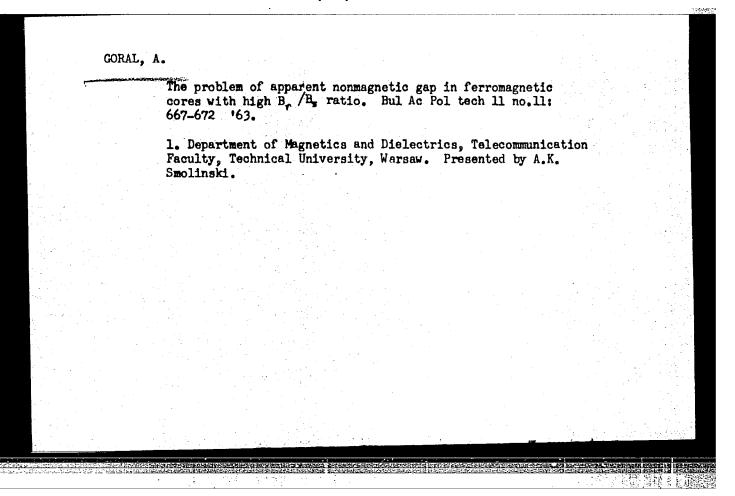
Analysis of the minor magnetization loop of ferromagnetics with large Br/Bs. Archiw automat 8 no. 4: 401-409 163.

1. Katedra Magnetykow i Dielektrykow, Politechnika, Warszawa.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020011-5"

On the structural current density method in analysis magnetization process. Bul Ac Pol tech 11 no.8:435-4	of t	he 3.		
1. Presented by A.K. Smolinski.			•	
	•			
			1 5 <u>4</u> 15	





GORAL, A.

Charge control approach to bistate and bistable operation of the magnetic amplifier. Bul Ac Pol tech 11 no. 12:769-775 163.

1. Department of Magnetics and Dielectrics, Telecommunication Faculty, Technical University, Warsaw. Presented by A.K. Smolinski.

GORAL, Arkadiusz; PAWELEC, Jozef

Certain criterion of stable operation of digital magnetic circuits. Przegl elektroniki 5 no. 5:227 My '64.

P/0031/64/009/001/0061/0069

ACCESSION NR: AP4039541

AUTHOR: Goral, Arkadiusz (Gural, A.); Pawelec, Josef (Pavelets, Yu.)

TITLE: One condition for the stable operation of parallel digital magnetic amplifier systems

SOURCE: Archiwum automatyki i telemechaniki, v. 9, no. 1, 1964, 61-69

TOPIC TAGS: magnetic storage line, magnetic delay line, digital amplifier, magnetic amplifier, magnetic amplifier system, magnetic device, square hysteresis-loop ferromagnetic, ferromagnetic

ABSTRACT: The condition for the stable operation of the examined system is that k_z 1, where k_z is the disturbance factor, defined as the ratio of the peak value of the magnetic field intensity of the disturbing flux to some threshold value H_0 which is determined from the magnetizing "charge" fluxes according to the equation

 $\Delta B = \varphi \left[\int_0^z H_M dt \right]$, where B is the irreversible change in induction, and H_M is the function of the system's parameters, based on the approximation of the diode characteristics and magnetizing pulses, are derived. The magnetic characteristics

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ACCESSION NR: AP4039541 of the core are linearized according to the magnetizing "charge" curves. The applicability of germanium and silicon diodes for use in this system was examined. According to the derived equations for kg, a stable operation is relatively easy to attain if diodes with a clearly-expressed nonlinearity and cores with a high value for the ratio $H_0\tau_0/S$ (τ_0 is the switching time and S is the switching coefficient) are used. In the case of $k_z=1$, no disturbances were observed in the operation of the system with a change in the peak values of the pulses within the limits -50 to 100%. Experimental results show a very good conformity between calculated and measured characteristics. Further tests on a two-phase register showed that the instrument can also operate stably with k>1, but with a greatly reduced reliability The shape of the core's output voltage pulse and period of its complete magnetic reversal also have an effect on the stability of operation. Original article has: 4 figures and 14 equations. ASSOCIATION: none DATE ACQ: 18Jun64 SURMITTED: 11Sep63 NO REF SOV: 000 OTHER: 004 SUB CODE: DP, EC

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000516020011-5"

L 6681-65 EWT(1)/EMA(h)

AFHD(p)/ASD(a)-5/ESD(c)/ESD(dp)/RAFM(t)/RAFM(a)

ACCESSION NR: AF4046461

P/0031/64/009/002/0199/0212

AUTHOR: Goral, Arkadiusz (Gurali, A.)

TITIE: Relay and digital systems of nonresonant magnetic amplifiers nonlinear

operation

SCURCE: Archivum automatyki i telemechaniki, v. 9, no. 2, 1954, 199-212

TOPIC TAGS: nonresonant magnetic emplifier, nonlinear signal, feedback, relay system, digital system, positive feedback

ABSTRACT: The author discusses two aspects of nonlinear operation of nonresonant magnetic amplifiers in connection with signal-forced and feedback-forced non-linearities respectively. Signal forced nonlinearity the usual case of bistate operation of magnetic amplifiers, typical for the digital circuits. Feedback forced nonlinearity results in relay operation of magnetic amplifiers. On the basis of charge control approach the trasients are analyzed in relay-operating circuits of center-tap amplistats with additional electric as well as magnetic positive feedback. Simple and general expressions are obtained for switching time

Card 1/2

L 6684-65 ACCESSION IR: AF4046461

without limitations imposed by the theories hitherto de eloped, regarding the value of control circuit linear impedance. It is shown that if half-cyclic response is required, the relay-operating magnetic amplifier becomes equivalent to that of digital type. After the expressions were given of boundary signal of half-cyclic resonse, the analogy between bistable and bistate kind of operating magnetic amplifiers was further extended regarding the maximum ratio of expect quantities corresponding to the two states possible. The main results of the sork are summarized in the table containing a comparison between the parameter of two types of circuits under consideration. It is concluded that the unition may of relay and digital magnetic circuits is primarily due to generalized edge that approach to magnetization processes in ferromagnetics.

ASSICIATION: Katedra Magnetykow i Dielekrykow Politechniki Warszawskiej
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Diode leakage in "rlo lear use" wo.listate; parallel-connected saturable renewr. Bul Ac Pol tech 12 no.6:413-417 '64. Charge control theory of the series-connected saturable reactor. Tbid.:419-423. 1. Department of Magnetics and Dielectrics, Division of Communication, Technical University, Warsew. Presented by A.K. Smolinski.

L 23928-65

ACCESSION NR: AP4039453

P/0019/64/013/001/0073/0110

AUTHOR: Goral, A.

TITLE: Mechanism of magnetization and circuit properties of magnetic cores

SOURCE: Archivum elektrotechniki, v. 13, no. 1, 1964, 75-110

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TOPIC TAGS: magnetic core, magnetic core magnetization, magnetization reversal, ferromagnetics, square loop ferrite, solid state physics, solid state circuitry, demain wall, Bloch wall, ferromagnetic particle, ferrite

ABSTRACT: The magnetization mechanics determines the circuit properties of magnetic cores to a significant extent. The macroscopic characteristics of the core internal can be interpreted on the basis of a model of the displacement of Bloch in by the concept of the rotation of dipoles in relation to the examined is and frequency ranges. The basic formula for the 19 motion of the Bloch wall was derived by the author in a previous study (A. Joral, "The equivalent structural 'current' density method in the magnetization process analysis," Bull. Acad. Polon., Sc. (Sc. Tech.), vol. 11, 1963, and can be written in the following form, provided that the term for inertia is emitted:

Card 1/4

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ACCESSION NR: AP4039453

 $m_e \ddot{x} + \beta \dot{x} + \alpha \dot{x} = kM_e H_M. \tag{1}$

where the threshold field $H_0 = cx$ rev.max./2M_c does not include the actual energy of the Bloch wall. The solution to equation (1) makes it possible to obtain expressions which link the values of the acting magnetic fields with the values for the average flux density. The parameter characterizing the material in the case of a reversible magnetization is the complex penetration factor. The formula determining the frequency characteristic μ is derived for the case of ferrites $(\beta_{\perp} = 0)$. For the characterization of irreversible behavior of ferromagnetics (when ox in equation 1 becomes a constant), the author introduces the concept of remagnetization resistivity. The macroscopic parameters obtained directly by estation (1) can be assumed by the appropriate "uniform wall displacement" mech-This mechanism is characteristic for reversible as well as for irreverstate magnetization processes taking place in the case of sufficiently high values of the acting magnetic fields. In general, however, the nonuniformity of the Fig., wall displacement should be assumed as the basic indication of an irreverbible magnetization process within a wide range of changes in the magnetizing field. This nonuniformity has a powerful influence on the numerical values of the parameters and at the same time is the starting point for a physical interpretation of the shares of the hysteresis loops of engineering magnetic materials. The

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L 23928-65

ACCESSION NR: AP4039453

basic equation for the rotational motion of a magnetic dipole has the following

$$M = \frac{\gamma}{1+\alpha_0^2} [M \times H] - \frac{\gamma}{M_s} \left(\frac{\alpha_0}{1+\alpha_0^2} + \lambda \right) [M \times (M \times H)]. \tag{2}$$

In this equation λ is the damping coefficient from the Laudau-Lifshitz equation; α_0 is the coefficient from the effects of a diffusion magnetic lag. It was proven that equation (2), just as the Gilbert equation of motion, is valid for the case of a "brief relaxation period." The analysis carried out in this study confirmed the validity of the previously developed concepts applicable for a figure theory of the self-saturation of magnetic amplifiers. Supplementary are presented. "The author wishes to thank Prof. Doctor Adam Smolinskiy for hints and discussions during the progress of this work." Orig. art. bas: 21 figures

Card 3/4

L 23928-65

ACCESSION NR: AP4039453

ASSOCIATION: Katedra Magnetykow i Dielektrykow Politechniki Warszawskiej (Department of Magnetics and Dielectrics, Warsaw Polytechnic Institute)

SUBMITTED: 30Aug63

ENCL: 00

SUB CODE: EM

NO REF SOV: 000

OTHER: 023

Card 4/4

GORAL, A.

Charge control approach to series-connected saturable reactor with external magnetic feedback. Bul Ac Pol tach 12 no.78 547-550 164.

l. Department of Magnetics and Dielectrics of the Division of Communication of the Technical University, Warsaw.

Presented by A.K. Smolinski.

GORAL, A.; WIERZBA, H.

Some results of instantaneous reversible permeability investigations on square-hysteresis loop ferrite cores. Bul Ac Pol Tech 12 no.9: 675-679 164.

1. Department of Magnetics and DieJoctrics of the Warsaw Technical University, and Department of Wire Communication of the Gdansk Technical University. Submitted April 17, 1964.

I 22476-66 EWA(h)

ACC NR: AP6009330

SOURCE CODE: PO/0095/65/013/008/0079/0083

AUTHOR: Goral, A.

59 B

ORG: Department of Magnetics and Dielectrics, <u>Technical University</u>.

<u>Warsaw</u> (Katedra Magnetykow i Dielektrykow, Politechnika)

TITLE: Generalized charge-control approach to nonparametric devices

SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques, v. 13, no. 8, 1965, 79-83

TOPIC TAGS: dielectric amplifier, magnetic amplifier, electrode, electronic/amplifier, transistor

ABSTRACT: Principles are presented for the structure of a generalized theory of nonparametric, nonresonance amplifiers their basic physical structure, regardless of their function. Such general concepts are introduced as the averaging time, delay time, and availability time. The fundamental term of the theory is the generalized charge control, which is identified with the process of a total mobile charge in electronic (conductive) devices. The generalized charge control in magnetic or dielectric conductive amplifiers is interpreted correspondingly as a maximum gain of the magnetic or electric fluxes during the operating

Card 1/2

ACC NR: AP6009330 cycles. The physical aspects of the input circuit of the device are expressed by the charge-transforming operator (CTO), and the physical properties of the input-circuit structure of the device itself are reflected by the charge-transforming parameter (CTP) of the control electrode. A few examples, used in the proposed theory, are given for the purpose of describing the properties of some electronic, magnetic, and dielectric devices, is emphasized that there are no known applications of CTO and the CTP in ordinary transistors using nonparametric charge-control devices. Orig. art. has: 2 figures and 4 formulas. [Based on author's abstract]

SUB CODE: 09/ SUBM DATE: none ORIG REF: 00 / OTH REF: 00

Card 2/2 6K

22857-66 SOURCE CODE: PO/0095/65/013/008/0085/0090 ACC NR. AP6009331 21 AUTHOR: Goral, A. (Gural', A.) 8 ORG: Department of Magnetics and Dielectrics, Technical University, Warsaw (Katedra Magnetykow i Dielektrykow, Politechnika) TITLE: Charge control analysis of the ferroelectric amplifier SOURCE: Polska akademia nauk. Bulletin. Serie des sciences techniques v. 13, no. 8, 1965, 85-90 TOPIC TAGS: equation theory, transpolarizer, amplifier, ferroelectric material, charge control ABSTRACT: Proceeding from the basic physical aspect of the existence of a clearly defined threshold field of irreversible changes of polarizations in the ferroelectric materials, a charge control method is given for investigating the properties of ferroelectric amplifiers. To carry out the charge control analysis, a basic single element ferroelectric amplifier was used as a model. The results are expressed in a qualitative form of equation theory, giving the experimental characteristics of charge control. The experimental data show the agree ment with the theoretical predictions and provide a further illustration Card 1/2

ferroele	ectric amp as and 19	lifiers develope formulas, [Base	erties of the "trans d by S. Pul'vari. O d on author's abstra	orig. art. has: (ct) [AM]	
SUB CODE	Z: 09/	SUBM DATE: none	ORIG REF: 002/	OTH REF: 003/	

L 39921-66

ACC NR: AP6018133

SOURCE CODE: PO/0095/65/013/009/0129/0134

AUTHOR: Goral, A.—Gural', A.

49 B

ORG: Department of Magnetics and Dielectrics, Telecommunication Faculty, Technical University, Warsaw (Katedra Magnetiyko i Dielektrykow, Wydzial Lacznosci, Politechnika)

TITLE: General theory of charge control of injection-type transistors

SOURCE: Polska akademia nakk. Bulletin. Serie des sciences techniques, v. 13, no. 9, 1965, 129-134

TOPIC TAGS: control circuit, control theory, charge control theory, transistor, injection type transistor, charge operator, transfer function, TRANSISTORIZED AMPLIFIER

ABSTRACT: A general theory is presented for an injection-type transistor used as an amplifier. This theory is based on the author's previous concept of the general form of an operator transmission circuit. The charge-transforming operator of an input gate as well as the working transfer function of an output-circuit chain, have been found. An expression has been obtained which describes the properties of an amplifier independent of the signal level and the input resistance. This approach had been considered impossible in the past when the theory of charge control of transistors, formulated by J. J. Sparks and R. Beaufoy, concerned itself with current-source control only. The paper was presented by J. Groszkowski, on 21 June 1965. Orig. art. has: 24 formulas and 2 figures. [Based on author's abstract] [AM]

ACC NR: AP6017911	(A)	SOURCE CODE	PO/0095/65/01	3/11-/0155/01	63
AUTHOR: Goral, A. B.	Gural', A.		•		
ORG: none				5 3 B	
TITLE: Transfer functi	on of an outpu	it-circuit of an	elementary magg	netic amplific	er
SOURCE: Polska akademi no. 11-12, 1965, 155-16	a nauk. Bulle				
TOPIC TAGS: elementary core, output circuit, a circuit, FERROMA ABSTRACT: In this article analyzes the determination of an output-circuifier. It is shown that if LC elements are involute case of very weak sifunction more essential The article was presented figures and 35 formula	cle, which is ion of the input for any char nonlinearity wed. The outgrals. The authan nonlinearity down A. K. Smeller	a sequel to his ut voltage and ; rge in an element is a main featur put circuit can uthor considers	previous works, parameters of the stary single-corre of magnetic a be considered 1 the nonlinearit	the author is transfer for magnetic an inplifier load inear only in y of the transic-core mater g. art. has:	wic- mpli- ling
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CIA-RDP86-00513R000516020011-5

POL. Gundlach W., Goral E. Economical Heat Recuperation in Gas Turbines. "Ekonomiczna" rekuperacja ciepła w turbinach gazowych". (Prace Inst. Mechan. No. 5), Watszawa, 1952, PWT, 16 pp., 24 Ligs. The authors contend that the optimum gas turbine cycle, that is the most invourable as regards economic considerations and design (dimenstons, weight) can only be correctly selected if due consideration is given to heat exchange phenomena. Pressure losses in gas turbines with recuperation system are in this respect, and contrary to many expressed opinions, of paramount importance, particularly since they vary within wide limits and are closely linked, though not always lucidly, with such other parameters as have to be closely examined. Adoption of the theory of similarity between heat exchangers has made it possible to aflow, with relative accuracy, for - in addition to other factors - the influence of heat exchange on the efficiency of the turbine cycle. Means are thus provided, by correctly separating those functions which individualise the size, first cost and operation expenditure of recuperators, for closely defining the actual saving attributable to heat recuperation. This method illustrated on an example of a simple Brayton-Joule effect cycle, can also be applied in cases of complex turbine cycles which have Intricate flow digulation and for which, by other means, it is Virtually impossible to determine oplimum conditions.

CORAL, Edmund, mgr.inz.; GRZEGORZEWSKI, Wojciech, mgr.inz.

The KG 1 turning engine for steam turbines of medium output.
Energetyka przem 10 no.61225-226 % . 62.

1. Zaklad Turbin Farowych, Instytut Techniki Cieplnej, Lods.

GORAL, Edmund, mgr inz.; GRZEGORZEWSKI, Wojciech, mgr inz.

The AG-8 air turbine for model testing of turbine stages.
Inst techn ciepl prace 9 no. 20:1-18 '64.

GORAL, L.

M. Chorazy, A. Gettlich, L. GORAL, B. Koloczek, E. Molawka, B. Penar, Z. Szweda, "Experimental Chemotherapy of Tumors with Hydrogen Peroxide," Nature, Vol. 182, No. 4632, 9 Aug 58, pp 395-96.

Published from the Department of Tumor Biology, Institute of Oncology, Gliwice, Poland. Received 1958.

GORAL, Roman

Frontonasal cranial hernia of unusual dimensions, late results of therapy. Polski przegl.chir. 27 no.1:3-9 Jan 55.

1. Z II Kliniki Chirurgicznej A. M., w Poznaniu Kierownik: prof. dr R.Drews.

(FRONTAL SINUS, diseases,
frontonasal encephalo-memingocele in child, surg.)
(MASAL CAVITY, diseases,
frontonasal encephalo-memingocele in child, surg.)
(BRAIN, diseases,
encephalo-memingocele of frontal sinus & masal cavity
in child, surg.)
(MENINGES, diseases,
encephalo-memingocele of frontal sinus & masal cavity
in child, surg.)

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Congenital anomalous arteriovenous anastomosis of the extremity.

Polski presel. chir. 28 no.7:595-601 July 56.

1. Z II Kliniki Chirurgicanej A.M. w Posnaniu. Kierownik: prof.
dr. R. Drews, Posnan, ul. Karwowskiego 22 m. 12.

(ARM, blood supply,
arteriovenous fistula, congen. (Pol))

(FISTULA, ARTERIOVENOUS,
arm, congen. (Pol))
```

WASTYNSKA, Maria; GORAL, Roman; BOGALA, Jozef

Significance of potassium in pre- and postoperative therapy. Polski prsegl. chir. 28 no.8:853-856 Aug 56.

1. Z II Kliniki Chirurgicznej A.M. Poznan, Kier.: prof. dr.
R. Drews i z Zakladu Chemii Fiziologicznej A.M. Poznan, Kier.:
prof. Z. Stolsmann. Poznan, ul. Hetmanska 13 m. 5.

(POTASSIUM, therapeutic use,
in postop. care (Pol))

(POSTOPERATIVE CARE,
potassium replenishment (Pol))

ISOIRted sarcoma in the gastric lymphatic system. Polski przegl.
chir. 28 no.12:1227-1235 Dec 56.

1. Z II Kliniki Chirurgicznej A.M. w Poznaniu Kierownik: prof.
Dr. R. Drews. Adres autora: Poznan, ul. Przybyszewskiego 49
(II Klin. Chir. A.M.).
(STOMACH EMPHASMS
lymphosarcoma & reticulum cell sarcoma, surg. (Pol))
(LIMPHOSAROMA, case reports
stomach, surg. (Pol))
(SARCOMA, RETICULUM CELL, case reports
stomach; surg. (Pol))

GRACZYKOWSKA-KOCZOROWSKA, Alicja; GORAL, Roman; SALWA, Wieslawa

Hormone-producing tumors of the adrenal cortex and their successful surgery. Polski tygod.lek. 15 no.25:959-963 20 Je *60.

1. Z II Kliniki Chorob Wewnetrsnych A.W. w Posnaniu; kierownik: prof. dr Jan Roguski, z II Kliniki Chirurgicznej A.W. w Posnaniu; kierownik: prof. dr Roman Drews i z Zakladu Anatomii Patologicznej A.W. w Posnaniu; kierownik: prof. dr Janusz Groniowski (ADRENOGENITAL SYNDROME surg) (CUSHING SYNDROME compl) (ANDRENAL CORTEX neopl)

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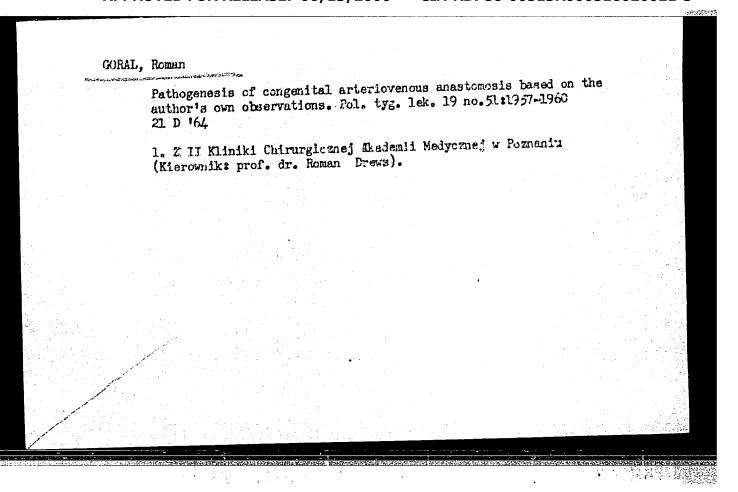
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1. Department of Genetics, College of Agriculture, Olsztyn.

P/0007/64/000/037/0011/0011

AP4044534 ACCESSION NR:

AUTHOR: Goral, Wladyslaw, Walczewski, Jacek

TITLE: Poland's participation in observation and utilization of artificial satellites

SOURCE: Skrzydlata Polska, no. 37, 1964, 11

TOPIC TAGS: artificial satellite observation, satellite surveillance, satellite data analysis, earth figure, upper atmosphere, international geophysical year, atmospheric density, scientific organization

ABSTRACT: The largest Polish enterprise dealing with artificial satellites is the Sluzba Obserwacji Sztucznych Satelitow Ziemi (SSZ) territes is the Siuzba Ubserwacji Sztucznych Satelitow Liemi (352)
(Artificial Earth Satellite Observation Service) which maintains 10
stations (3 in Warsaw, 2 in Krakow, and one each in Poznan, Gdansk,
olsztyn, Wroclaw, and Chorzow) connected with astronomical observatories or geodetic centers of universities. The work of the service is directed and coordinated by Komitet Miedzynarodowej Wspolpracy Geofizycznej (Committee for International Cooperation on Geophysics)

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ACCESSION NR: AP4044534

of PAN, which also publishes the Biuletyn Polskich Obserwacji Sztucznych Satelitow (Bulletin of Polish Artificial Satellite Observations). The stations are part of the 'Kosmos' network operating out of Moscow, participate in the international 'Interobs' program, and are an integral part of the network observing regularly American and Canadian satellites. At the same time, they work in close cooperation with the state Panstwowy Instytut Hydrologiczno-Meterologiczny (State Institute of Hydrology and Meteorology)(PIHM) and giczny (State Institute of Hydrology and Meteorology)(PIHM) and Ministerstwo Lacznosci (Ministry of Communications), utilizing their facilities and equipment. The quality of their observations has won foreign recognition, the Polskie Centrum Obliczeniowe (Polish Compuforeign recognition, the Polskie Centrum Obliczeniowe (Polish Computing Center) processes and analyzes data observed in many European stations, and work is now in progress on devising a way to convert sound into visual signals in meterorlogical observations. The author notes the resultant benefits to the Polish economy by way of contribution to eventual improved television reception and improved meterorlogical forecasts.

ASSOCIATION: None

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